Application No. 10/716,622 Docket No.: Y2238.0054

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A packet search device that performs packet filter search for an inputted packet, comprising:

a first search processing means for searching processor that searches predetermined conditional statements corresponding to a plurality of information areas included in header information of said packet with using a first search method to generate first search results; and

a second search processing means for searching processor that searches the first search results of said first search processing means with processor using a second search method that is different from said first search method.

- 2. (Currently Amended) The packet search device according to claim 1, wherein said first search processing means processor divides said packet header information into a plurality of information areas and searches across each search conditional statements structured as binary search trees for each of said information areas separately.
- 3. (Currently Amended) The packet search device according to claim 2, wherein said second search processing means processor searches aggregated search results of said first search processing means processor using a Hash method.
- 4. (Currently Amended) The packet search device according to claim 1, comprising a search database for managing each search result of said first and second search processing means processors for each of said information area.

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- 5. (Original) The packet search device according to claim 4, wherein said search database has a plurality of search keys.
- 6. (Currently Amended) The packet search device according to claim 3, wherein said second search processing means processor manages only combinations of search results.
- 7. (Original) The packet search device according to claim 1, wherein at least QoS (Quality of Service) information and filter information are searched for based on said header information.
- 8. (Original) The packet search device according to claim 1, wherein said packet search processing is performed at least in a router and a firewall.
- 9. (Currently Amended) A packet processing search method, on a packet search device that includes a first search processor and a second search processor, that searches for a packet filter for an inputted packet before performing packet processing, comprising:
- a first step of the first search processor searching predetermined conditional statements corresponding to a plurality of information areas included in header information of said packet with using a first search method to generate first search results; and
- a second step of the second search processor searching the first search results at said first step with using a second search method that is different from said first search method.

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10. (Currently Amended) The packet processing search method according to claim 9, wherein in said first step the first search processor divides said packet header information into a plurality of information areas and searches across each search conditional statements structured as binary search trees for each of said information areas separately.

- 11. (Currently Amended) The packet processing search method according to claim 10, wherein in said second step the second search processor searches aggregated search results of said first step using a llash method.
- 12. (Original) The packet processing search method according to claim 9, wherein each search result at said first and second steps is managed for each of said information areas using a search database.
- 13. (Original) The packet processing search method according to claim 12, wherein said search database has a plurality of search keys.
- 14. (Currently Amended) The packet processing search method according to claim 11, wherein in said second step the second search processor manages only combinations of search results.
- 15. (Original) The packet processing search method according to claim 9, wherein at least Qos (Quality of Service) information and filter information are searched for based on header information in said packet.

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16. (Original) The packet processing search method according to claim 9, said packet search processing is performed at least in a router and a firewall.

17. (Currently Amended) A <u>computer-readable medium storing a program for causing a program-controlled packet search device that includes a first search processor and a second search processor to perform a packet processing search method that searches for a packet filter for an inputted packet before performing packet processing, causing a <u>computer the program-controlled packet search device</u> to execute,</u>

first processing by the first search processor that searches predetermined conditional statements corresponding to a plurality of information areas included in header information of said packet with using a first search method to generate first search results; and

second processing by the second search processor that searches the first search results of said first processing with using a second search method that is different from said first search method.